

Title (en)  
GRID PLATE ASSEMBLY FOR A HYDROCONVERSION REACTOR AND USE THEREOF

Title (de)  
GITTERPLATTE FÜR HYDROKONVERSIONSREAKTOR UND DEREN VERWENDUNG

Title (fr)  
GRILLE POUR RÉACTEUR D'HYDROCONVERSION ET SON UTILISATION

Publication  
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Application  
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Abstract (en)  
[origin: US2012315202A1] An apparatus is disclosed for the hydroconversion of hydrocarbon feedstock with a hydrogen gas at elevated temperature and pressure with the use of a catalyst. The apparatus is a reactor vessel with a grid plate distributor for improved gas liquid distribution. The distributor comprises a grid plate and a bubble cap assembly with a plurality of tubular risers extending through the grid plate. Each tubular riser has an upper section above the grid plate and a lower section below the grid plate, the lower section terminated with an open bottom end for ingress of the hydrogen gas and hydrocarbon feedstock, the upper section having a closed top terminated with a housing cap. Each tubular riser has at least a vertical slot and a least a side hole sufficiently sized such that in operation, the liquid level in the zone below the grid plate is above the vertical slot and below the side hole opening.

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